

TITLE 7--AGRICULTURE
CHAPTER III--BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE
PART 301--DOMESTIC QUARANTINE NOTICES

WHITE-FRINGED BEETLE ADMINISTRATIVE INSTRUCTIONS MODIFIED
TREATMENT AUTHORIZED

Introductory Note.--Further investigational work has shown that it is possible to kill all stages of the white-fringed beetle by methyl bromide fumigation under partial vacuum applied at a modified dosage or at a modified temperature under the dosage heretofore authorized. This work has also shown the practicability of applying these treatments to soil masses up to 16 inches in diameter, instead of the maximum 11-inch diameter required heretofore. The instructions in B. E. P. Q. 503, fourth revision, which became effective January 9, 1942, are modified accordingly.

The description as to the size requirements of the soil masses has been somewhat reworded for the purpose of clarification.

§ 301.72-5(c)* Administrative instructions--Treatments authorized.--Pursuant to the authority conferred upon the Chief of the Bureau of Entomology and Plant Quarantine by paragraph (a) of § 301.72-5, Chapter III, Title 7, Code of Federal Regulations [Regulation 5 of Notice of Quarantine No. 72 on account of the white-fringed beetle], subparagraph (2) of paragraph (a) of § 301.72-5 (c) [page 2 of the mimeographed edition of circular B. E. P. Q. 503, fourth revision] is hereby modified effective May 6, 1942, to read as follows:

(2) Methyl bromide fumigation under partial vacuum. (i) Fumigation under partial vacuum equivalent to at least 24.5 inches of mercury may be done with a dosage of either 4 pounds methyl bromide per 1,000 cubic feet, including the space occupied by the commodity, with an exposure of 1 1/2 hours at a temperature of 70° F.; or a dosage of 3 pounds of methyl bromide per 1,000 cubic feet for a period of 1 1/2 hours at a temperature of 75° F. In either case the vacuum shall be maintained during the entire period.

(ii) The soil masses shall have a diameter of not more than 16 inches if spherical, or if not spherical the masses or pots shall be of such size that no point within them will be more than 8 inches from the nearest point on the surface.

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Superseding §§ 301.72-5a and b.

(iii) The soil shall not be wet but shall be in condition satisfactory to the inspector when treatment is applied.

(iv) The fumigant-air mixture shall be circulated in the fumigation chamber by means of a fan the first 15 minutes of the exposure period to mix the vaporized fumigant thoroughly with the air in the chamber and bring it in contact with the surface of the soil balls. The soil balls shall be washed with one or more changes of air at the end of the exposure period.

(v) A standard vacuum fumigation chamber which can be closed tight and will withstand an external pressure of at least one atmosphere is required. A vacuum pump of sufficient capacity to reduce the pressure within the vacuum chamber to the equivalent of 3 inches of mercury (a 27-inch vacuum at sea level) in not more than 20 minutes is necessary.

(7 CFR § 301.72-5; sec. 8, 39 Stat. 1165, 44 Stat. 250; 7 U.S.C. 161)

Done at Washington, D. C., this 29th day of April 1942.

P. N. ANNAND,
Chief